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CLAIMS:

1. A method for in vivo expression of an immunogen comprising:

administering an inactivated host cell to a mammal, wherein said host cell comprises a polynucleotide encoding an immunogen, and wherein the immunogen is expressed *in vivo* by the mammalian cells.

- 2. The method of claim 1 wherein the host cell is inactivated by heat treatment.
- 3. The method of claim 1 wherein the host cell is inactivated by ultra-violet light exposure.
- 4. The method of claim 1 wherein the host cell is inactivated by hydrogen peroxide treatment.
- 5. The method of claim 1 wherein a plasmid comprises the polynucleotide encoding the immunogen.
- 6. The method of claim 1 wherein the polynucleotide encoding the immunogen is incorporated into the host cell genome.
- 7. The method of claim 1 wherein the expressed immunogen generates an immune response in the mammal.
- 8. A method of generating an immune response in a mammal comprising:

administering an inactivated host cell to said mammal, wherein said inactivated host cell comprises a polynucleotide encoding an immunogen.

- 9. The method of claim 8 wherein the host cell is inactivated by heat treatment.
- 10. The method of claim 8 wherein the host cell is inactivated by ultraviolet light exposure.
- 11. The method of claim 8 wherein the host cell is inactivated by hydrogen peroxide treatment.
- 12. The method of claim 8 wherein a plasmid comprises the polynucleotide encoding the immunogen.
- 13. The method of claim 8 wherein the polynucleotide encoding the immunogen is incorporated into the host cell genome.

- 14. A composition comprising an inactivated host cell that comprises a polynucleotide encoding an immunogen.
- 15. The composition of claim 14 further comprising a pharmaceutically acceptable solution.
- 16. The composition of claim 14 further comprising a pharmaceutically acceptable carrier.
- 17. A method of making an inactivated host cell comprising:
- (i) transforming a host cell with a vector comprising a polynucleotide encoding an immunogen; and
 - (ii) inactivating the host cell.
- 18. The method of claim 17 wherein the step of inactivating is performed by heat treatment.
- 19. The method of claim 17 wherein the step of inactivating is performed by ultraviolet light exposure.
- 20. The method of claim 17 wherein the step of inactivating is performed by hydrogen peroxide treatment.
- 21. The method of claim 17 wherein the inactivated host cells are detoxified.
- 22. The method of claim 21 where the detoxification is by genetic manipulation of the host cells' lipopolysaccharide synthesis genes.